

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	14	US-4281184-\$.DID. OR US-5811597-\$.DID. OR US-5741953-\$.DID. OR US-5705711-\$.DID. OR US-5013407-\$.DID. OR US-5449801-\$.DID. OR US-4939294-\$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/30 13:29
L2	310762	acetic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/30 13:29
L3	4	L1 and L2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/30 13:29
L4	9046	chloroacetic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/30 13:29
L5	2	L1 and L4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/30 13:29
L6	265630	chlorine	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/30 13:29
L7	3158	L4 and L6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/30 13:29
L8	11	"4885897"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/30 13:29
L9	82	562/602	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/30 13:29
L10	1077	reactive adj distillation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/30 13:29
L11	1	L9 and L10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/30 13:29

## EAST Search History

L12	4	"2002010094"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/01/30 13:29
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Connecting via Winsock to STN

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER  
NEWS 6 DEC 14 CA/CAPLUS to be enhanced with updated IPC codes  
NEWS 7 DEC 21 IPC search and display fields enhanced in CA/CAPLUS with the  
IPC reform  
NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/  
USPAT2  
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB  
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to  
INPADOC  
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT  
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV  
  
NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.  
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:03:43 ON 30 JAN 2006

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.42

0.42

FILE 'REGISTRY' ENTERED AT 10:04:34 ON 30 JAN 2006

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STRUCTURE FILE UPDATES: 29 JAN 2006 HIGHEST RN 872967-60-7  
DICTIONARY FILE UPDATES: 29 JAN 2006 HIGHEST RN 872967-60-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> e monochloroacetic acid/cn

E1	1	MONOCHLOROACETATE ION(1-)/CN
E2	1	MONOCHLOROACETATOTRIPHENYLSTANNANE/CN
E3	1 -->	MONOCHLOROACETIC ACID/CN
E4	1	MONOCHLOROACETIC ACID METHYL ESTER/CN
E5	1	MONOCHLOROACETIC ACID PYRIDINE COMPOUND (2:1)/CN
E6	1	MONOCHLOROACETIC ACID SODIUM SALT/CN
E7	1	MONOCHLOROACETIC ACID SODIUM SALT HOMOPOLYMER/CN
E8	1	MONOCHLOROACETIC ACID SODIUM SALT HOMOPOLYMER, SRU/CN
E9	1	MONOCHLOROACETIC ACID TRIMETHYLAMINE SALT/CN
E10	1	MONOCHLOROACETIC ACID-STYRENE TELOMER/CN
E11	1	MONOCHLOROACETIC ANHYDRIDE/CN
E12	1	MONOCHLOROACETOHYDROXAMIC ACID/CN

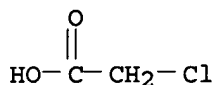
=> e3

L1 1 "MONOCHLOROACETIC ACID"/CN

=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 79-11-8 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Acetic acid, chloro- (8CI, 9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN  $\alpha$ -Chloroacetic acid  
CN Chloracetic acid  
CN Chloroacetic acid  
CN Chloroethanoic acid  
CN MCA  
CN MKhUK  
CN Monochloroacetic acid

CN Monochloroethanoic acid  
 CN NSC 142  
 CN NSC 42970  
 FS 3D CONCORD  
 MF C2 H3 Cl O2  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA,  
 CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST,  
 CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DIPPR\*, DRUGU, EMBASE,  
 ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB,  
 IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PDLCOM\*, PIRA,  
 PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT,  
 USPAT2, USPATFULL, VTB  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

9704 REFERENCES IN FILE CA (1907 TO DATE)  
 686 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 9718 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus  
 COST IN U.S. DOLLARS  
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
7.10	7.52

FILE 'CAPLUS' ENTERED AT 10:05:10 ON 30 JAN 2006  
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FILE COVERS 1907 - 30 Jan 2006 VOL 144 ISS 6  
 FILE LAST UPDATED: 29 Jan 2006 (20060129/ED)

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=> l1  
 L2 9718 L1

=> l1/prep

9718 L1  
3415975 PREP/RL  
L3 596 L1/PREP  
(L1 (L) PREP/RL)

=> reactive adj distillation

281104 REACTIVE  
144 REACTIVES  
281203 REACTIVE  
(REACTIVE OR REACTIVES)  
235 ADJ  
52558 DISTILLATION  
375 DISTILLATIONS  
52692 DISTILLATION  
(DISTILLATION OR DISTILLATIONS)  
173226 DISTN  
1761 DISTNS  
173960 DISTN  
(DISTN OR DISTNS)  
187934 DISTILLATION  
(DISTILLATION OR DISTN)  
L4 0 REACTIVE ADJ DISTILLATION  
(REACTIVE (W) ADJ (W) DISTILLATION)

=> reactive distillation

281104 REACTIVE  
144 REACTIVES  
281203 REACTIVE  
(REACTIVE OR REACTIVES)  
52558 DISTILLATION  
375 DISTILLATIONS  
52692 DISTILLATION  
(DISTILLATION OR DISTILLATIONS)  
173226 DISTN  
1761 DISTNS  
173960 DISTN  
(DISTN OR DISTNS)  
187934 DISTILLATION  
(DISTILLATION OR DISTN)  
L5 989 REACTIVE DISTILLATION  
(REACTIVE (W) DISTILLATION)

=> l3 and l5

L6 1 L3 AND L5

=> d l6 ti fbib abs

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN  
TI A process for the preparation of monochloroacetic acid from acetic acid  
and chlorine  
AN 2004:333684 CAPLUS  
DN 140:341116  
TI A process for the preparation of monochloroacetic acid from acetic acid  
and chlorine  
IN Gorissen, Johannes Joseph; Van Strien, Cornelis Johannes Govardus  
PA Akzo Nobel N.V., Neth.; Crouzen, Jeroen  
SO PCT Int. Appl., 19 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----

PI WO 2004033408 A1 20040422 WO 2003-EP10944 20031002  
 WO 2004033408 C1 20050512  
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,  
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,  
 LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,  
 OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
 TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 EP 1549604 A1 20050706 EP 2002-79252 A 20021011  
 EP 2003-807833 20031002  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
 EP 2002-79252 A 20021011  
 WO 2003-EP10944 W 20031002  
 BR 2003015232 A 20050823 BR 2003-15232 20031002  
 EP 2002-79252 A 20021011  
 WO 2003-EP10944 W 20031002  
 US 2005272953 A1 20051208 US 2005-529144 20050419  
 EP 2002-79252 A 20021011  
 WO 2003-EP10944 W 20031002

OS CASREACT 140:341116

AB A process for the production of monochloroacetic acid from chlorine and acetic acid in the presence of a catalyst (e.g., acetyl chloride) by **reactive distillation** is described and a process flow diagram is presented. The process and the required **reactive distillation** apparatus is much less complex than conventional reactors and yields a monochloroacetic acid product having a low content of over-chlorinated byproducts.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	16.28	23.80
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-0.75

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 DICTIONARY FILE UPDATES: 29 JAN 2006 HIGHEST RN 872967-60-7

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 \*

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 \* the IDE default display format and the ED field has been added, \*  
 \* effective March 20, 2005. A new display format, IDERL, is now \*  
 \* available and contains the CA role and document type information. \*  
 \* \*  
 \*\*\*\*\*

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> e chlorine/cn

E1	1	CHLORINDIONE/CN
E2	1	CHLORINDRIN/CN
E3	1 -->	CHLORINE/CN
E4	1	CHLORINE (35CL2)/CN
E5	1	CHLORINE (35CL37CL)/CN
E6	1	CHLORINE (35CL37CL1+)/CN
E7	1	CHLORINE (37CL)/CN
E8	1	CHLORINE (37CL2)/CN
E9	1	CHLORINE (CL1+)/CN
E10	1	CHLORINE (CL2+)/CN
E11	1	CHLORINE (CL21+)/CN
E12	1	CHLORINE (CL3)/CN

=> e3

L7 1 CHLORINE/CN

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	5.20	29.00
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.75

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FILE COVERS 1907 - 30 Jan 2006 VOL 144 ISS 6  
 FILE LAST UPDATED: 29 Jan 2006 (20060129/ED)

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<http://www.cas.org/infopolicy.html>

=> l7

L8 70376 L7

=> l7/rct

70376 L7

2811887 RCT/RL

L9 10299 L7/RCT

(L7 (L) RCT/RL)

=> d his

(FILE 'HOME' ENTERED AT 10:03:43 ON 30 JAN 2006)

FILE 'REGISTRY' ENTERED AT 10:04:34 ON 30 JAN 2006

E MONOCHLOROACETIC ACID/CN

L1 1 E3

FILE 'CAPLUS' ENTERED AT 10:05:10 ON 30 JAN 2006

L2 9718 L1

L3 596 L1/PREP

L4 0 REACTIVE ADJ DISTILLATION

L5 989 REACTIVE DISTILLATION

L6 1 L3 AND L5

FILE 'REGISTRY' ENTERED AT 10:07:35 ON 30 JAN 2006

E CHLORINE/CN

L7 1 E3

FILE 'CAPLUS' ENTERED AT 10:07:55 ON 30 JAN 2006

L8 70376 L7

L9 10299 L7/RCT

=> l3 and l9

L10 23 L3 AND L9

=> d l10 11-23 ti

L10 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

TI Chlorination process and catalysts for preparing chloroacetic acid from acetic acid and chlorine

L10 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for preparing chloroacetic acid

L10 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

TI Preparation of chloroacetic acid

L10 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process for preparation of chloroacetic acid

L10 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

TI Preparation of monochloroacetic acid

L10 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

TI Process and dechlorination catalysts for the preparation of chloroacetic acid containing reduced amounts of dichloroacetic acid impurity

L10 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

TI Preparation of monochloroacetic acid

L10 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

TI Preparation of monochloroacetic acid by chlorination of acetic acid

L10 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Process and apparatus for the manufacture of monochloroacetic acid

L10 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Process for producing  $\alpha$ -chloroacetoacetic acid monomethylamide

L10 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Study of an industrial atmosphere. Chlorine-ethene interactions in a simulated atmosphere

L10 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Studies on vinyl chloride migrating into drinking water from poly(vinyl chloride) pipe and reaction between vinyl chloride and chlorine

L10 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Monochloroacetic acid

=> column

392722 COLUMN  
 101933 COLUMNS  
 L11 442855 COLUMN  
 (COLUMN OR COLUMNS)

=> l10 and l11

L12 2 L10 AND L11

=> d l12 1-2 ti fbib abs

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI A process for the preparation of monochloroacetic acid from acetic acid and chlorine  
 AN 2004:333684 CAPLUS  
 DN 140:341116  
 TI A process for the preparation of monochloroacetic acid from acetic acid and chlorine  
 IN Gorissen, Johannes Joseph; Van Strien, Cornelis Johannes Govardus  
 PA Akzo Nobel N.V., Neth.; Crouzen, Jeroen  
 SO PCT Int. Appl., 19 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004033408	A1	20040422	WO 2003-EP10944	20031002
	WO 2004033408	C1	20050512		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
				EP 2002-79252	A 20021011
	EP 1549604	A1	20050706	EP 2003-807833	20031002
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
				EP 2002-79252	A 20021011
				WO 2003-EP10944	W 20031002
	BR 2003015232	A	20050823	BR 2003-15232	20031002
				EP 2002-79252	A 20021011

US 2005272953	A1	20051208	WO 2003-EP10944	W	20031002
			US 2005-529144		20050419
			EP 2002-79252	A	20021011
			WO 2003-EP10944	W	20031002

OS CASREACT 140:341116

AB A process for the production of monochloroacetic acid from chlorine and acetic acid in the presence of a catalyst (e.g., acetyl chloride) by reactive distillation is described and a process flow diagram is presented. The process and the required reactive distillation apparatus is much less complex than conventional reactors and yields a monochloroacetic acid product having a low content of over-chlorinated byproducts.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

TI Method for selective chlorination in microreactors

AN 2002:107275 CAPLUS

DN 136:150935

TI Method for selective chlorination in microreactors

IN Wehle, Detlef; Dejmek, Michael; Rosenthal, Johannes; Ernst, Herbert; Kampmann, Detlef; Trautschold, Stephan; Pechatschek, Robert

PA Clariant G.m.b.H., Germany

SO PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2002010094	A1	20020207	WO 2001-EP8859	20010726
	W: CN, IN, JP, MX, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				

	DE 10036603	A1	20020207	DE 2000-10036603	A	20000727
				DE 2000-10036603		20000727

OS CASREACT 136:150935; MARPAT 136:150935

AB ClCR1R2R3 [R1, R2 = H, Cl, CO2H; or R1R2 = CO; R3 = H, (substituted) Ph, PhCH2] was prepared by selective chlorination of HCR1R2R3 (R1, R2, R3 as above) with Cl2 at >140° preferably at 170°-190° in a microreactor. Thus, AcOH and AcCl were treated at 190° with Cl2 at an overpressure of 6 bar in a microcapillary reactor to give 90% ClCH2CO2H. Yield of Cl2CHCO2H as byproduct was reduced to <0.05%.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> LOGOFF HOLD

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
15.97	44.97

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.50	-2.25

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 10:10:40 ON 30 JAN 2006